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# RELIABILITY PREDICTION

**Model : PSP-500** Data:2001-02-23

| Style | Part Type | Q'ty | $\lambda_g$ | $\pi_Q$ | $\lambda_{eg}$ | % |
|---|---|---|---|---|---|---|
| 9.1 | Resistor-Film, Insulated (RL) | 82 | 0.003700 | 10 | 3.034000 | 39.478 |
| 9.1 | Resistor-Wirewound Power (RW) | 6 | 0.008500 | 10 | 0.510000 | 6.636 |
| 9.1 | Resistor-Film, Variable (RVC) | 1 | 0.040000 | 10 | 0.400000 | 5.205 |
| 9.1 | Resistor-Thermistor (RTH) | 1 | 0.001400 | 10 | 0.014000 | 0.182 |
| 10.1 | Capacitor-Metal, Plastic (CH) | 28 | 0.000510 | 10 | 0.142800 | 1.858 |
| 10.1 | Capacitor-Ceramic(Gen.) (CK) | 9 | 0.001700 | 10 | 0.153000 | 1.991 |
| 10.1 | Capacitor-Aluminum Dry (CE) | 27 | 0.001300 | 10 | 0.351000 | 4.567 |
| 6.1 | Diode-Gen. Purpose Analog | 2 | 0.003600 | 8 | 0.057600 | 0.749 |
| 6.1 | Diode-Switching | 21 | 0.000940 | 8 | 0.157920 | 2.055 |
| 6.1 | Diode-Power Rectifier / Schottky Power | 12 | 0.002800 | 8 | 0.268800 | 3.498 |
| 6.1 | Diode-Voltage Ref/Reg. (Avalanche & Zener) | 8 | 0.003300 | 8 | 0.211200 | 2.748 |
| 6.3 | Transistor-NPN/PNP | 10 | 0.000150 | 8 | 0.012000 | 0.156 |
| 6.4 | Transistor-MOSFET | 4 | 0.014000 | 8 | 0.448000 | 5.829 |
| 6.11 | OPTO-isolator | 3 | 0.027000 | 8 | 0.648000 | 8.432 |
| 5.1 | Linear Microcircuits | 6 | 0.009500 | 10 | 0.570000 | 7.417 |
| 11.1 | Transformer Switching | 4 | 0.000610 | 3 | 0.007320 | 0.095 |
| 11.2 | Coil Fixed inductor or choke | 3 | 0.000032 | 3 | 0.000288 | 0.004 |
| 13.1 | Relay-General Purpose | 1 | 0.049000 | 2.9 | 0.142100 | 1.849 |
| 14.1 | Switches-Thermal | 1 | 0.031000 | 2 | 0.062000 | 0.807 |
| 15.1 | Connector- Rectangular | 4 | 0.050000 | 2 | 0.400000 | 5.205 |
| 17.1 | Single Connections-Reflow solder | 595 | 0.000069 | 1 | 0.041055 | 0.534 |
| 17.1 | Fuses Clip-Clip Termination | 2 | 0.000120 | 1 | 0.000240 | 0.003 |
| 22.1 | Fuses | 1 | 0.010000 | 1 | 0.010000 | 0.130 |
| 16.1 | Plated Through Hole Circuit Boards | 1 | 0.022000 | 2 | 0.044000 | 0.573 |
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| **Total Failure rate:** | | | | | 7.685323 | 100% |

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**
- **Exclude: FAN**

**MTBF:** 130118.15 **hrs**

Approved by: David Wang Compiled by: Kim Tseng .